

## WEST Search History

DATE: Thursday, August 14, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; THES=ASSIGNEE; PLUR=YES;</i>			
<i>OP=ADJ</i>			
L8	L7 and maleic.clm.	3	L8
L7	lignocellulos\$4.clm. and phenol formaldehyde.clm.	54	L7
L6	L5 and ((264/\$)!.CCLS.)	13	L6
L5	L4 and maleic	34	L5
L4	lignocellulos\$4 same phenol formaldehyde	155	L4
L3	lignocellulos\$4 same maleic same phenol formaldehyde	5	L3
L2	L1 and lignocellulos\$4	6	L2
L1	salisbury.IN.	545	L1

END OF SEARCH HISTORY

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L6: Entry 1 of 13

File: USPT

Oct 8, 2002

DOCUMENT-IDENTIFIER: US 6461469 B1

TITLE: Method for the manufacture of a finished product from a lignocellulosic material

Brief Summary Text (20):

The first component of the impregnating composition is a thermosetting resin for the binding of the lignocellulosic material, preferably selected from the group consisting of an isocyanate thermosetting resin, an unsaturated polyester resin, an epoxy resin, and a phenol formaldehyde resole resin, dissolved in a suitable non-aqueous solvent, particularly an aromatic or chlorinated hydrocarbon solvent, or liquid carbon dioxide, or a combination thereof.

Brief Summary Text (47):

The preferred anhydrides are the dicarboxylic anhydrides, particularly maleic anhydride and succinic anhydride.

Detailed Description Paragraph Table (1):

Dichloromethane 72% MDI urethane prepolymer 8% Suprasec 5005 Polystyrene 18% Maleic anhydride 1.5% Wood preservative 0.5% (all % by mass).

Detailed Description Paragraph Table (2):

Super critical carbon dioxide 66,25% Toluene 10% Dichloromethane 15% MDI urethane prepolymer Suprasec 2447 3% Expanded polystyrene waste 4,5% Maleic anhydride 0,5% Wood preservative 0,75% (all % by mass)

Current US Cross Reference Classification (4):264/109

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L6: Entry 2 of 13

File: USPT

Oct 23, 2001

DOCUMENT-IDENTIFIER: US 6306241 B1

TITLE: Wax sizing and resin bonding of a lignocellulosic composite

Brief Summary Text (7):

Lignocellulosic composites primarily find use in construction or fabrication. These composites may be used in building construction or any fabrication where wood is a traditional material used. The poor dimensional stability of state-of-the-art lignocellulosic composites affects their mechanical properties and reduces their load carrying ability. Another result of poor dimensional stability is unevenness of roof and floor underlayments, and of building siding. Two methods have been principally suggested as means to produce dimensionally stable lignocellulosic composites. However, both of these method have proven to be too costly to be used in practice. The first method is referred to as Bulking Treatment. In this method, lignocellulosic materials are impregnated with water soluble polymers such as polyethylene glycol or impregnated with a low molecular weight resin such as phenol-formaldehyde or vinyl monomers and polymerized in situ. The second method is referred to as Chemical Modification. In this method the lignocellulose may be esterified by, for example, acetylation, or it may be cross-linked using, for example, an aldehyde. An alternative method of Chemical Modification is to react hemicellulose with lignin under elevated temperatures, typically using steam treatment. Any of these methods of Chemical Modification, in addition to being costly, also result in reduced strength of the once-formed composite.

Brief Summary Text (15):

One non-conventional bonding process, disclosed by Philippou et al. In "Bonding of Particleboard Using Hydrogen Peroxide," Forest Products Journal, Volume 32 (1982), is said to produce water-resistant flakeboards. Here the authors disclose a process wherein wood flake is first treated with hydrogen peroxide. The wood flake is next mixed with ammonium lignosulfonate, furfuryl alcohol, and maleic acid, which then react to form the composite. Maleic acid is a catalyst for the cross-linking reaction of the ammonium lignosulfonate and furfuryl alcohol. Treating the wood apparently provides grafting sites for the polymers from the reaction of the ammonium lignosulfonate and furfuryl alcohol. The water resistance of the resulting flakeboard can be improved by incorporating a wax emulsion with the addition of the reactants. However, it is reported that the use of the wax emulsion negatively effects the mechanical properties of the flakeboard when it is applied at 1% or higher based on the dry wood weight.

Brief Summary Text (17):

The phenol-formaldehyde resin used in the manufacture of lignocellulosic composites may be in the form of a solid or a liquid. Powdered phenolic resins, such as novolac, resole, or combinations thereof, may generally be used. U.S. Pat. No. 4,098,770 to Berchem, et al., discloses a typical spray-dried phenol-formaldehyde resin, modified with added non-phenolic polyhydroxy compounds, used in the manufacture of waferboard. Liquid phenol-formaldehyde resins, such as resole or resole and novolac combinations, may also be generally used in the manufacture of lignocellulosic composites. Parameters for the manufacture of either liquid or solid phenol-formaldehyde resins are disclosed in Phenolic Resins, Chemistry, Applications and Performance, (A. Knop and L. A. Pilato, Springer-Verlag (1985)) and Advance Wood Adhesives Technology, (A Pizzi, Marcel Dekker (1994)).

Current US Cross Reference Classification (3):264/109

**WEST**

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**Search Results - Record(s) 1 through 13 of 13 returned.**☐ 1. Document ID: US 6461469 B1

L6: Entry 1 of 13

File: USPT

Oct 8, 2002

US-PAT-NO: 6461469

DOCUMENT-IDENTIFIER: US 6461469 B1

TITLE: Method for the manufacture of a finished product from a lignocellulosic material

DATE-ISSUED: October 8, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Symons; Michael Windsor	Pretoria			ZA

US-CL-CURRENT: 156/296; 156/330, 156/331.4, 156/335, 264/109, 427/382, 427/385.5,  
427/391, 427/393

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw Desc	Image
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☐ 2. Document ID: US 6306241 B1

L6: Entry 2 of 13

File: USPT

Oct 23, 2001

US-PAT-NO: 6306241

DOCUMENT-IDENTIFIER: US 6306241 B1

TITLE: Wax sizing and resin bonding of a lignocellulosic composite

DATE-ISSUED: October 23, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chiu; Shui-Tung	Coquitlam, B.C.			CA

US-CL-CURRENT: 156/296; 156/335, 156/62.2, 264/109

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw Desc	Image
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☐ 3. Document ID: US 6113729 A

L6: Entry 3 of 13

File: USPT

Sep 5, 2000

US-PAT-NO: 6113729

DOCUMENT-IDENTIFIER: US 6113729 A

TITLE: Wax sizing and resin bonding of a lignocellulosic composite

DATE-ISSUED: September 5, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chiu; Shui-Tung	Coquitlam			CA

US-CL-CURRENT: 156/296; 156/283, 156/335, 156/62.2, 264/109, 264/122

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RMC	Draw Desc	Image
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☐ 4. Document ID: US 6007649 A

L6: Entry 4 of 13

File: USPT

Dec 28, 1999

US-PAT-NO: 6007649

DOCUMENT-IDENTIFIER: US 6007649 A

TITLE: Method of producing press-moulding materials with polyisocyanate binders and using latent, heat-activable catalysts

DATE-ISSUED: December 28, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haas; Peter	Haan			DE
Vehlewald; Peter	Leichlingen			DE
Kasperek; Peter	Much			DE

US-CL-CURRENT: 156/62.2; 156/296, 264/109

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RMC	Draw Desc	Image
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☐ 5. Document ID: US 5879600 A

L6: Entry 5 of 13

File: USPT

Mar 9, 1999

US-PAT-NO: 5879600

DOCUMENT-IDENTIFIER: US 5879600 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Method of preparing an exfoliated vermiculite for the manufacture of finished product

DATE-ISSUED: March 9, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Symons; Michael Windsor	Pretoria			ZA

US-CL-CURRENT: 264/110; 252/378R, 264/112, 264/123, 423/327.1, 423/331, 427/221, 427/407.1, 427/496, 427/533, 427/536, 427/539, 427/551, 427/553

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RMC	Draw Desc	Image
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☐ 6. Document ID: US 5635248 A

L6: Entry 6 of 13

File: USPT

Jun 3, 1997

US-PAT-NO: 5635248

DOCUMENT-IDENTIFIER: US 5635248 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Method of producing coating on reconstituted wood substrate

DATE-ISSUED: June 3, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hsu; Oscar H.	Lansdale	PA		
Currier; Gerard M.	High Point	NC		
Moes; Philip H.	Brandon	MO		

US-CL-CURRENT: 427/358; 264/113, 264/120, 264/241, 264/255, 264/46.4, 427/366, 427/370,  
427/373, 427/382, 427/393, 427/397

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMIC	Draw Desc	Image
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☐ 7. Document ID: US 5520777 A

L6: Entry 7 of 13

File: USPT

May 28, 1996

US-PAT-NO: 5520777

DOCUMENT-IDENTIFIER: US 5520777 A

TITLE: Method of manufacturing fiberboard and fiberboard produced thereby

DATE-ISSUED: May 28, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shisko; Walter S.	Corbeil			CA

US-CL-CURRENT: 162/13; 156/307.3, 162/164.7, 162/224, 162/225, 162/76, 162/9, 264/128,  
428/326

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMIC	Draw Desc	Image
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☐ 8. Document ID: US 4576771 A

L6: Entry 8 of 13

File: USPT

Mar 18, 1986

US-PAT-NO: 4576771

DOCUMENT-IDENTIFIER: US 4576771 A

TITLE: Aqueous isocyanate emulsions and their use as binders in a process for the  
production of shaped articles

DATE-ISSUED: March 18, 1986

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Scholl; Hans-Joachim	Cologne			DE
Reiff; Helmut	Leverkusen			DE
Sachs; Hanns I.	Cologne			DE

US-CL-CURRENT: 264/109; 264/122, 264/300, 516/25, 516/27, 516/58, 516/66, 516/69,  
560/330, 560/336

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)

[RWC](#) [Draw Desc](#) [Image](#)

☐ 9. Document ID: US 4528153 A

L6: Entry 9 of 13

File: USPT

Jul 9, 1985

US-PAT-NO: 4528153

DOCUMENT-IDENTIFIER: US 4528153 A

TITLE: Process for producing molded particulate articles utilizing a self-releasing binder based on a sulfonic acid modified isocyanate

DATE-ISSUED: July 9, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Scholl; Hans-Joachim	Cologne			DE
Sachs; Hanns I.	Cologne			DE
Jabs; Gert	Odenthal			DE
Loew; Gunther	Leichlingen			DE

US-CL-CURRENT: 264/109; 264/122, 524/745, 528/59

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)

[RWC](#) [Draw Desc](#) [Image](#)

☐ 10. Document ID: US 4528117 A

L6: Entry 10 of 13

File: USPT

Jul 9, 1985

US-PAT-NO: 4528117

DOCUMENT-IDENTIFIER: US 4528117 A

TITLE: Aqueous isocyanate emulsions and their use as binders in a process for the production of shaped articles.

DATE-ISSUED: July 9, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Scholl; Hans-Joachim	Cologne			DE
Reiff; Helmut	Leverkusen			DE
Sachs; Hanns I.	Cologne			DE

US-CL-CURRENT: 516/68; 264/109, 428/326, 516/66, 516/69

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)

[RWC](#) [Draw Desc](#) [Image](#)

☐ 11. Document ID: US 4490518 A

L6: Entry 11 of 13

File: USPT

Dec 25, 1984

US-PAT-NO: 4490518

DOCUMENT-IDENTIFIER: US 4490518 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Liquid organic polyisocyanate-dicarboxylic ester binder composition and lignocellulosic composite materials prepared therefrom

DATE-ISSUED: December 25, 1984

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fuzesi, Stephen	Hamden	CT		
Brown, Robert W.	Hamden	CT		

US-CL-CURRENT: 527/401; 156/331.4, 264/125, 524/13, 524/14, 527/100, 527/103, 528/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 12. Document ID: US 4293456 A

L6: Entry 12 of 13

File: USPT

Oct 6, 1981

US-PAT-NO: 4293456

DOCUMENT-IDENTIFIER: US 4293456 A

TITLE: Process for the production of polyurethane plastics

DATE-ISSUED: October 6, 1981

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reischl, Artur	Leverkusen			DE

US-CL-CURRENT: 524/589; 156/62.2, 264/109, 264/122, 264/125

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 13. Document ID: US 4044087 A

L6: Entry 13 of 13

File: USPT

Aug 23, 1977

US-PAT-NO: 4044087

DOCUMENT-IDENTIFIER: US 4044087 A

TITLE: Method of making fast cured lignocellulosic particle board

DATE-ISSUED: August 23, 1977

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Robitschek, Paul	Eugene	OR		
Christensen, Ross L.	Eugene	OR		

US-CL-CURRENT: 264/113; 264/122

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Term	Documents
264/\$	0
"264/DIG. 1"	16
"264/DIG. 10"	91
"264/DIG. 11"	40
"264/DIG. 12"	26
"264/DIG. 13"	399
"264/DIG. 14"	289
"264/DIG. 15"	93
"264/DIG. 16"	91
"264/DIG. 17"	132
"264/DIG. 18"	180
(L5 AND ((264/\$)!.CCLS.)).USPT,PGPB,JPAB,EPAB,DWPI.	13

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Day : Thursday  
Date: 8/14/2003  
Time: 18:24:41

## PALM INTRANET

### Inventor Name Search Result

Your Search was:

Last Name = SALISBURY

First Name = RICHARD

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>60085361</u>	Not Issued	159	05/13/1998	SPRAY BOOTH FOR POWDER COATING	SALISBURY , RICHARD
<u>60047060</u>	Not Issued	159	05/19/1997	FLUID DISPENSER	SALISBURY , RICHARD
<u>60028337</u>	Not Issued	159	10/11/1996	?	SALISBURY , RICHARD
<u>09904199</u>	Not Issued	094	07/11/2001	THERMAL IMAGING SYSTEM	SALISBURY, RICHARD
<u>09866451</u>	Not Issued	041	05/25/2001	METHOD OF MODIFYING COMPONENTS PRESENT IN CASHEW NUT SHELL LIQUID	SALISBURY, RICHARD JAMES
<u>09762457</u>	Not Issued	030	03/23/2001	BONDING LIGNOCELLULOSIC MATERIALS	SALISBURY, RICHARD JAMES
<u>09311796</u>	Not Issued	161	05/13/1999	SPRAY BOOTH FOR POWDER COATING	SALISBURY , RICHARD
<u>09173120</u>	<u>6165080</u>	150	10/15/1998	GOLF CLUB AIR ASSIST DRIVER	SALISBURY , RICHARD M.
<u>09081478</u>	<u>5909828</u>	250	05/19/1998	COMPRESSIBLE TUBE DISPENSER WITH ADJUSTABLE ACTUATING LEVER	SALISBURY , RICHARD
<u>08375102</u>	Not Issued	169	01/19/1995	LIQUID DISPENSER	SALISBURY , RICHARD
<u>08373947</u>	<u>5620518</u>	150	01/17/1995	POWDER COATING SYSTEM	SALISBURY , RICHARD
<u>08317842</u>	<u>5483604</u>	150	10/04/1994	MONITORING CHANGES IN IMAGE CHARACTERISTICS	SALISBURY , RICHARD
<u>08156432</u>	<u>5382450</u>	250	11/23/1993	METHOD FOR POWER SPRAY COATING AN ARTICLE USING A	SALISBURY , RICHARD

				CONVEYOR HAVING A WIPING SURFACE	
<u>08144875</u>	Not Issued	164	10/28/1993	ERONOMIC ORESSURIZED ADHESIVE DISPENSER	SALISBURY , RICHARD
<u>08123534</u>	<u>5385754</u>	150	09/17/1993	TREATMENT OF LIGNOCELLULOSIC MATERIALS	SALISBURY , RICHARD J.
<u>08019703</u>	Not Issued	166	02/19/1993	MONITORING CHANGES IN IMAGE CHARACTERISTICS	SALISBURY , RICHARD
<u>07876786</u>	<u>5264255</u>	250	04/27/1992	A METHOD OF APPLYING A COATING OF LOOSE PARTICULATE MATERIAL TO AN ARTICLE	SALISBURY , RICHARD
<u>07839498</u>	<u>5264037</u>	250	02/20/1992	POWDER COATING SYSTEM	SALISBURY , RICHARD
<u>07662303</u>	<u>5164707</u>	150	02/28/1991	DETECTION SYSTEM FOR SAFETY EQUIPMENT	SALISBURY , RICHARD
<u>07575954</u>	<u>5107789</u>	150	08/31/1990	ARTICLE COATING SYSTEM	SALISBURY , RICHARD
<u>07486537</u>	<u>5023597</u>	150	02/28/1990	DETECTION APPARATUS FOR SAFETY EYEWEAR	SALISBURY , RICHARD
<u>07486513</u>	<u>5000985</u>	250	02/28/1990	METHOD OF POWDER COATING	SALISBURY , RICHARD
<u>07305453</u>	<u>4953495</u>	250	02/01/1989	ARTICLE COATING SYSTEM	SALISBURY , RICHARD
<u>07157961</u>	<u>4959791</u>	150	02/19/1988	CONTROL SYSTEM FOR ENHANCING GRAY TONES OF A DIGITALLY OPERATED PRINTER	SALISBURY , RICHARD S.
<u>07000726</u>	Not Issued	161	01/06/1987	CURING OVEN	SALISBURY , RICHARD
<u>06778214</u>	<u>4694180</u>	150	09/20/1985	CURING OVEN FOR ADHESIVE	SALISBURY , RICHARD
<u>06704629</u>	Not Issued	168	02/22/1985	CURING OVEN	SALISBURY , RICHARD

**Inventor Search Completed: No Records to Display.**

	<b>Last Name</b>	<b>First Name</b>
<b>Search Another:</b>	<input type="text" value="salisbury"/>	<input type="text" value="richard"/>
<b>Inventor</b>	<input type="button" value="Search"/>	

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